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LEON R TURKEVICH 2000 M STREET NW 7TH FLOOR WASHINGTON, DC 200363307			EXAMINER YUEN, KAN	
			ART UNIT 2616	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/628,427

Applicant(s)

PETERSON ET AL.

Examiner

Kan Yuen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 03 July 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-15 and 25-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 and 25-33 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 July 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

***Response to Arguments***

1. Applicant's arguments with respect to claims 1-15 have been considered but are moot in view of the new ground(s) of rejection. Claims 25-33 are newly added.

***Claim Rejections - 35 USC § 103***

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 5-9, 13-15, 25, 29-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Delaney et al. (Pub No.: 2004/0141514), in view of Burst Jr. (Pat No.: 7088677), and Joseph et al. (Pat No. 7068654).

For claims 1, 9, 25 Delaney et al. disclosed the method of each application server process group having at least one assigned application server process sharing the prescribed point code and configured for providing services for a corresponding message signaling unit attribute, each application server process assigned to one of the application server process groups (See fig. 8 e.g. box 400) (See paragraph 0035, lines 1-20); As mentioned in the reference, the signal transfer point can be an IP signaling gateway (See paragraph 0011, lines 1-10); receiving by a signaling gateway an SS7 message having an originating point code specifying an originating node and a destination point code specifying the prescribed point code, the SS7 message carrying a message signaling unit having specified attributes (See paragraph 0035, lines 1-20); identifying by a signaling gateway one of the application server process groups as a candidate group for processing the message signaling unit based on a determined match between the corresponding message signaling unit attribute and at least a corresponding portion of the specified attributes (See paragraph 0012, lines 1-20) and (See fig. 6, box 420); and selectively sending by a signaling gateway to the originating node a congestion notification message based on determining that an identified priority of the message signaling unit does not exceed the corresponding congestion level for

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the candidate group (See paragraph 0049, lines 1-18). However, Delaney et al. did not disclosed the method of determining by a signaling gateway a congestion level for each of a plurality of Voice over IP-based application server process groups and each of the application server process groups distinct from the signaling gateway and sharing a same prescribed point code with the signaling gateway. Burst Jr. from the same or similar fields of endeavor teaches the method of determining by a signaling gateway a congestion level for each of a plurality of Voice over IP-based application server process groups (see column 8, lines 55-61, and see figs 1-2). The IP tandem includes a media gateway, which performs congestion control of VoIP modules. Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method as taught by Burst Jr. in the network of Delaney et al. The motivation for using the method as taught by Burst Jr. in the network of Delaney et al. being that it provides the system increases the efficiency of capacity in VoIP modules. Joseph et al. from the same or similar fields of endeavor teaches the method of each of the application server process groups distinct from the signaling gateway and sharing a same prescribed point code with the signaling gateway (see column 9, lines 40-50). A host or gateway shares the same network address or point code with a plurality of other hosts such as VoIP modules. The other hosts can be application server process groups. Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method as taught by Joseph et al. in the network of Delaney et al. and Burst Jr. The motivation for using the method as taught by Joseph et al. in the

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network of Delaney et al. and Burst Jr. being that it provides the network shares the resources of address.

Regarding claims 5, 13, 29 Delaney et al. disclosed the method of a first and second of the application server process groups are configured for providing Signalling Connection Control Part (SCCP) message service and ISDN User Part message service as the respective message signaling unit attributes (See paragraph 0011, lines 8-17).

Regarding claims 6, 14, 30 Delaney et al. disclosed the method of receiving a second SS7 message having a second originating point code specifying a second originating node (See fig. 7, point 202, and 204 also M1, M2) and the destination point code specifying the prescribed point code, and carrying a second message signaling unit having second specified attributes (See paragraph 0043, lines 1-15); identifying another one of the application server process groups as a second candidate group based on determined match between the corresponding message signaling unit attribute and at least a corresponding portion of the second specified attributes, distinct from the portion of the specified attributes of the message signaling unit (See paragraph 0035, lines 1-20) and (See fig. 6, box 420); sending the second message signaling unit to an identified active one of the application server processes of the another one of the application server process groups, based on a determined priority of the second message signaling unit exceeding the congestion level of the second candidate group and independent of the congestion level of the candidate group (See paragraph 0047, lines 1-12).

Regarding claims 7, 15, 32 Delaney et al. disclosed the method of selectively outputting to an identified one of the assigned application server processes of the candidate group the message signaling unit based on determining that the identified priority of the message signaling unit exceeds the corresponding congestion level for the candidate group (See paragraph 0049, lines 1-18).

Regarding claim 8, Delaney et al. disclosed the method of the selectively outputting includes identifying the identified one assigned application server process based on receiving an application server process active message from the identified one assigned application server process (See paragraph 0049, lines 1-10). As disclosed in the reference, in response to the TFC message sent by the signaling point, any server (Fig. 8, e.g. 500, 502) can send a request message to the signaling point for alternate route.

Regarding claim 31, Delaney et al. disclosed the method of an Internet Protocol (IP) based output circuit configured for outputting the second message signaling unit to the identified active one of the application server processes (See paragraph 0047, lines 1-12).

Regarding claim 33, Delaney et al. disclosed the method of the congestion level detection circuit is configured for identifying the identified one assigned application server process based on receiving an application server process active message from the identified one assigned application server process (See paragraph 0049, lines 1-10). As disclosed in the reference, in response to the TFC message sent by the

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signaling point, any server (Fig. 8, e.g. 500, 502) can send a request message to the signaling point for alternate route.

6. Claims 2-4, 10-12, 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Delaney et al. (Pub No.: 2004/0141514), in view of Burst Jr. (Pat No.: 7088677), and Joseph et al. (Pat No. 7068654), as applied to claim 1 above, and further in view of Archer (Pat No.: 6747955).

For claims 2, 10, 26 Delaney et al., Burst Jr. and Joseph et al. disclosed all the subject matter of the claimed invention with the exception of the determining step includes determining the congestion levels for each application server process group based on a corresponding traffic configuration. Archer from the same or similar fields of endeavor teaches the use of determining step includes determining the congestion levels for each application server process group based on a corresponding traffic configuration (see column 3, lines 5-30). In the reference, the signal transfer point 16 is setup for monitoring congestion in connections between service switching points 20. The status of a link is rated from level 0 to level 3, where level 0 is no traffic, and level 3 is maximum traffic. Thus, it is obvious to the person of ordinary skilled in the art at the time of the invention to use the method as taught by Archer in the network of Delaney et al. Burst Jr. and Joseph et al. The motivation for using the method as taught by Archer in the network of Delaney et al. Burst Jr. and Joseph et al. being that it will determine a link to route the message based on the congestion level of the message.



Regarding claim 3, 11, 27 Archer also disclosed the method of for the traffic configuration for a corresponding application server process group includes an override configuration (see column 3, lines 5-30). In the reference, the level is determined based on the maximum level of 3, which is override configuration. Thus, it is obvious to the person of ordinary skilled in the art at the time of the invention to use the method as taught by Archer in the network of Delaney et al. Burst Jr. and Joseph et al. The motivation for using the method as taught by Archer in the network of Delaney et al. Burst Jr. and Joseph et al. being that it will determine a link to route the message based on the congestion level of the message.

Regarding claim 4, 12, 28 Archer also disclosed the method of selectively setting the congestion level for a corresponding application server process group based on a highest determined congestion of an associated one of the application server processes, based on the corresponding application server process group having the override configuration (see column 3, lines 5-30). In the reference, the level is determined based on the maximum level of 3, which is override configuration. Thus, it is obvious to the person of ordinary skilled in the art at the time of the invention to use the method as taught by Archer in the network of Delaney et al. Burst Jr. and Joseph et al. The motivation for using the method as taught by Archer in the network of Delaney et al. Burst Jr. and Joseph et al. being that it will determine a link to route the message based on the congestion level of the message.

**Conclusion**

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kan Yuen whose telephone number is 571-270-2413. The examiner can normally be reached on Monday-Friday 10:00a.m-3:00p.m EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky O. Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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